

What is claimed is:

1. An music playback unit comprising:

a first memory for storing musical score data;

a second memory for storing correction data for

5 correcting said musical score data for each velocity of each note;

a correction section for correcting the velocity of said musical score data read from said first memory using said correction data read from said second memory; and

10 a playback section for loading said musical score data after correction from said correction section and playing sound according to this musical score data.

2. The music playback unit according to Claim 1, wherein after the acoustic power of each velocity is

15 measured for each note, the respective measurement result is standardized by the measurement result for a specified velocity of a specified note, and the standardized acoustic power is stored in said second memory as said correction data.

20 3. The music playback unit according to Claim 2, wherein said correction section calculates the following formula using said correction data and corrects each velocity of said musical score data using this calculation result.

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$$V_{rev} = \frac{V^2}{V_0} \cdot S(n, V)^{-\frac{1}{4}}$$

S(n, V) : correction data when note power is n and velocity is V

V : velocity

V₀ : specified velocity

V_{rev} : corrected velocity

4. The music playback unit according to Claim 3, wherein said correction section corrects each velocity of said musical score data by converting the calculation result into an integer after said calculation.

5 5. The music playback unit according to Claim 3, wherein said correction section corrects each velocity of said musical score data by converting the calculation result into an integer of 127 or less after said calculation.

10 6. The music playback unit according to Claim 1, wherein after the acoustic power of each velocity is measured for each note, then the respective measurement result is standardized by the measurement result for a specified velocity of a specified note, said correction data is created by the calculation of the following formula using
15 the standardized acoustic power, and this correction data is stored in said second memory.1

$$V_{rev} = \frac{V^2}{V_0} \cdot S(n, V)^{-\frac{1}{4}}$$

S(n, V) : standardized acoustic power when note is n and velocity is V

V : velocity

V₀ : specified velocity

V_{rev} : corrected velocity

7. The music playback unit according to Claim 6,
wherein said correction data is a value obtained by
converting said calculation result into an integer.

8. The music playback unit according to Claim 6,
5 wherein said correction data is a value obtained by
converting said calculation result into an integer of 127 or
less.

9. The music playback unit according to Claim 6,
wherein each velocity of said musical score data is
10 corrected by said correction section rewriting the velocity
of said musical score data read from said first memory into
said correction data read from said second memory.

10. The music playback unit according to Claim 1,
further comprising a communication circuit which downloads
15 said acoustic data from the communication network and stores
said acoustic data in said first memory.

11. The music playback unit according to Claim 1,
wherein said musical score data is music instrument digital
interface data.

20 12. A correction method for musical score data,
comprising the steps of:

measuring the acoustic power of each velocity for each
note;

standardizing the respective measurement result by the
25 measurement result on a specified velocity of a specified
note; and

correcting the velocity of the musical score data using said standardized measurement result.

13. The correction method for musical score data according to Claim 12, wherein the following formula is
5 calculated using said correction data, and each velocity of said musical score data is corrected using this calculation result.

$$V_{rev} = \frac{V^2}{V_0} \cdot S(n, V)^{-\frac{1}{4}}$$

S(n, V): standardized acoustic power when note is n and velocity is V

V: velocity

V₀: specified velocity

V_{rev}: corrected velocity

14. The music playback unit according to Claim 13,
wherein each velocity of said musical score data is
10 corrected by converting the calculation result into an integer after said calculation.

15. The music playback unit according to Claim 13,
wherein each velocity of said musical score data is
corrected by converting the calculation result into an
15 integer of 127 or less after said calculation.

16. The correction method for musical score data according to Claim 12, wherein said measurement step, said standardization step, and the storing of said measurement result in said music playback unit are executed in the
20 manufacturing stage of the music playback unit, and said correction step is executed in the musical performance stage of said music playback unit.

17. The correction method for musical score data according to Claim 12, wherein said measurement step, said standardization step, said correction step for all types of velocities, and the storing of the corrected velocities in said music playback unit are executed in the manufacturing stage of the music playback unit, and the velocity of said musical score data is replaced with said corrected velocity corresponding thereto in the musical performance stage of said music playback unit.

18. The correction method for musical score data according to Claim 12, wherein said correction step is executed for said acoustic data which is downloaded from the communication network to the music playback unit.

19. The correction method for musical score data according to Claim 12, wherein said acoustic data, after said measurement step, said standardization step and said correction step are executed, is downloaded from the communication network to the music playback unit.

20. The correction method for musical score data according to Claim 12, wherein said acoustic data, after said measurement step, said standardization step and said correction step are executed, is stored in the music playback unit in the manufacturing stage.

21. The correction method for musical score data according to Claim 12, wherein said musical score data is music instrument digital interface data.